

AMENDMENTS TO THE CLAIMS

Listing of Claims

1. (currently amended) A process of manufacturing a hollow plastic product with two open ends and a substantially tubular section, the process comprising the steps of:

(a) providing a cavity mold part ~~with~~ that includes a generally cylindrical portion for forming at least an outside segment of ~~the~~ a substantially tubular section of ~~the~~ a molded hollow plastic product that has one open end, one closed end and a substantially tubular section;

(b) providing a core mold part ~~with~~ that includes a generally cylindrical portion for forming at least an inside segment of the substantially tubular section of the molded plastic product;

(c) combining the cavity mold part with the core mold part to configure a mold cavity for forming ~~a the~~ the molded plastic product ~~with one open end, one closed end and a substantially tubular section;~~

(d) injecting plastic material into the mold cavity to form the molded plastic product;

(e) separating the core mold part from the cavity mold part while retaining the molded plastic product on the core mold part;

(f) removing the molded plastic product from the core mold part; and

(g) after step (f) removing at least a portion of the closed end of the molded plastic product to provide ~~the molded~~ a manufactured hollow plastic product with two open ends and a substantially tubular section;

wherein step (f) comprises injecting compressed air into the closed end of the molded product to thereby at least help remove the molded product from the core mold part.

2. (original) A process according to Claim 1, wherein step (f) comprises the step of:

(h) injecting compressed air through the core mold part into the closed end of the molded product.

3. (previously presented) A process according to Claim 1, wherein the product further includes a thread at the outside of one end of the product,

wherein step (a) comprises the step of:

(h) providing a said cavity mold part that includes a thread-forming portion for forming the thread of the product;

wherein step (b) comprises the step of:

(i) providing a said core mold part that includes an inner core that is movable relative to the generally cylindrical portion for forming a portion of the product lying inside the thread when the inner core is protracted;

wherein step (c) further comprises the step of:

(j) retracting the inner core to further configure the mold cavity for forming the product;

wherein the process further comprises the step of:

(k) subsequent to injection of the plastic according to step (d), retracting the inner core; and

wherein separation of the core mold part from the cavity mold part according to step (e) thereby removes the thread from the thread-forming portion of the cavity mold part.

4. (currently amended) A process of manufacturing a hollow plastic product with a substantially tubular section and a thread at the outside of one end of the product, the process comprising the steps of:

(a) providing a cavity mold part ~~with~~ that includes (i) a generally cylindrical portion for forming at least an outside segment of the a substantially tubular section of the a hollow plastic product that also has a thread at the outside of one end of the product and (ii) a thread-forming portion for forming the thread of the product;

(b) providing a core mold part that includes (i) a generally cylindrical portion for forming at least an inside segment of the substantially tubular section of the product and (ii) an inner core that is movable relative to the generally cylindrical portion for forming a portion of the product lying inside the thread when the inner core is protracted;

(c) combining the cavity mold part with the core mold part and protracting the inner core to configure a mold cavity for forming the product;

(d) injecting plastic material into the mold cavity to form the molded plastic product;

(e) retracting the inner core; and

(f) separating the core mold part from the cavity mold part to thereby remove the thread from the thread-forming portion of the cavity mold part while retaining the molded product on the core mold part.

Claims 5-11 (cancelled)

12. (currently amended) Apparatus for manufacturing a hollow plastic product with two open ends and a substantially tubular section, comprising:

a cavity mold part ~~with~~ that includes a generally cylindrical portion for forming at least an outside segment of ~~the~~ a substantially tubular section of the a molded hollow plastic product that has one open end, one closed end and a substantially tubular section;

a core mold part ~~with~~ that includes a generally cylindrical portion for forming at least an inside segment of the substantially tubular section of the molded plastic product;

wherein a mold cavity for forming a the molded plastic product ~~with one open end, one closed end and a substantially tubular section~~ is configured when the cavity mold part is combined with the core mold part, and the molded product is formed by injecting plastic material into the mold cavity;

means for injecting compressed air into the closed end of the molded product to thereby at least help remove the molded product from the core mold part after the core mold part has been separated from the cavity mold part while retaining the molded product on the core mold part; and

manufacturing means for removing at least a portion of the closed end of the molded plastic product after the molded product has been removed from the core mold part to provide ~~the molded~~ a manufactured hollow plastic product with two open ends and a substantially tubular section.

13. (original) Apparatus according to Claim 12, wherein the core mold part includes means for channeling compressed air through the core mold part into the closed end of the molded product.

14. (previously presented) Apparatus according to Claim 12, wherein the product further includes a thread at the outside of one end of the product,

wherein the cavity mold part includes a thread-forming portion for forming the thread of the product;

wherein the core mold part includes an inner core that is movable relative to the generally cylindrical portion for forming a portion of the product lying inside the thread when the inner core is protracted;

wherein the mold cavity for forming the molded product with a thread at the outside of one end of the product is configured when the cavity mold part is combined with the core mold part and the inner core is protracted; and

wherein the apparatus comprises:

means for separating the core mold part from the cavity mold part after the inner core is retracted to thereby remove the thread from the thread-forming portion of the cavity mold part while retaining the molded product on the core mold part.

15. (currently amended) Apparatus for manufacturing a hollow plastic product with a substantially tubular section and a thread at the outside of one end of the product, comprising:

a cavity mold part ~~with~~ that includes (i) a generally cylindrical portion for forming at least an outside segment of ~~the~~ a substantially tubular section of the ~~a hollow plastic product that also has a thread at the outside of one end of the product~~ and (ii) a thread-forming portion for forming the thread of the product;

a core mold part that includes (i) a generally cylindrical portion for forming at least an inside segment of the substantially tubular section of the product and (ii) an inner core that is movable relative to the generally cylindrical portion for forming a portion of the product lying inside the thread when the inner core is protracted;

wherein a mold cavity for forming a molded product with a substantially tubular section and a thread at the outside of one end of the product is configured when the cavity mold part is combined with the core mold part and the inner core is protracted, and the molded product is formed by injecting plastic material into the mold cavity;

means for separating the core mold part from the cavity mold part after the inner core is retracted to thereby remove the thread from the thread-forming portion of the cavity mold part while retaining the molded product on the core mold part.